

- (b) preparing amplification primer pairs which amplify the first and second domains where each primer pair comprises an upstream primer and a downstream primer, each primer having a 5' end and a 3' end, wherein the downstream primer for the first domain or the upstream primer for the second domain comprises a nontemplated sequence,
 - said nontemplated sequence comprising said repeated pattern of degenerate repeated triplet nucleotides, wherein at least two of the 5' terminal triplets of said repeated pattern of degenerate repeated triplet nucleotides have the same degenerate sequence;
- (c) amplifying the domains with the amplification primers to generate at least one population of nucleic acid domains having different lengths and sequences in the non-templated sequence; and
- (d) ligating the nucleic acid domains generated in step (c) to generate said population of dual-domain molecules.
- (e) excising or amplifying said linker nucleic acid molecules or sequences from said population of dual domain molecules.

Claim 51. (Canceled)